

SINGLE STAGE HID ELECTRONIC BALLAST

Abstract of Disclosure

An HID ballast, is powered by a power source, to control operation of a load. The HID ballast includes a switching network connected to a first bus and a second bus, and is configured to output a high-frequency voltage signal. A bridge converter section has a first leg including first and second series connected bridge diodes, and a second leg including third and fourth series connected bridge diodes. Each leg is connected to the first bus and the second bus and is configured to receive an input signal from the power source and to convert the input signal into a form usable by the switching section. The bridge converter section is integrated with the switching section to provide the usable signal to the switching section, and to contribute to the operation of the switching section. By this design, the HID ballast is defined as a single-stage ballast device.

Figures

Figure 1: A line graph showing the relationship between the number of people in a household and the number of people in a household. The x-axis is labeled 'Number of people in a household' and ranges from 0 to 10. The y-axis is labeled 'Number of people in a household' and ranges from 0 to 10. The data points are as follows:

| Number of people in a household (x) | Number of people in a household (y) |
|-------------------------------------|-------------------------------------|
| 0 | 0 |
| 1 | 1 |
| 2 | 2 |
| 3 | 3 |
| 4 | 4 |
| 5 | 5 |
| 6 | 6 |
| 7 | 7 |
| 8 | 8 |
| 9 | 9 |
| 10 | 10 |